

Title (en)
DISPLAY DEVICE

Title (de)
ANZEIGEVORRICHTUNG

Title (fr)
AFFICHEUR

Publication
EP 3694009 B1 20240717 (EN)

Application
EP 20166650 A 20180926

Priority
• KR 20180063203 A 20180601
• KR 20180088874 A 20180730
• EP 18196855 A 20180926

Abstract (en)
[origin: US10410549B1] A display device includes: a housing; a roller rotatably disposed on the housing; a flexible display that is rolled around the roller or unrolled from the roller; a first arm connected to the flexible display; an arm supporter provided in the housing; an arm shaft rotatably supported to the arm supporter; a second arm coupled to the arm shaft and rotated together with the arm shaft to rotate the first arm; a rotation mechanism connected to the second arm to rotate the second arm about the arm shaft; and an angle sensor module connected to at least one of the arm shaft and the second arm.

IPC 8 full level
G09F 9/30 (2006.01); **H10K 99/00** (2023.01); **G06F 1/16** (2006.01); **B21B 39/00** (2006.01); **H05K 5/00** (2006.01); **H05K 5/02** (2006.01)

CPC (source: CN EP KR US)
G06F 1/1601 (2013.01 - EP); **G06F 1/1616** (2013.01 - KR); **G06F 1/1641** (2013.01 - KR); **G06F 1/1652** (2013.01 - EP); **G09F 9/301** (2013.01 - CN EP KR US); **G09F 11/02** (2013.01 - US); **G09F 11/08** (2013.01 - US); **H10K 50/84** (2023.02 - US); **H10K 77/111** (2023.02 - EP KR US); **B21B 39/008** (2013.01 - US); **H05K 5/0017** (2013.01 - US); **H05K 5/0217** (2013.01 - US); **H05K 5/0247** (2013.01 - US); **H10K 2102/311** (2023.02 - EP US); **Y02E 10/549** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 10410549 B1 20190910; CN 110556055 A 20191210; CN 110556055 B 20220805; EP 3576172 A1 20191204; EP 3576172 B1 20200603; EP 3694009 A1 20200812; EP 3694009 B1 20240717; KR 102031910 B1 20191014; US 10769971 B2 20200908; US 2019371214 A1 20191205

DOCDB simple family (application)
US 201816049571 A 20180730; CN 201811239208 A 20181023; EP 18196855 A 20180926; EP 20166650 A 20180926; KR 20180088874 A 20180730; US 201916512074 A 20190715